

FLOW CELLS UTILIZING PHOTOMETRIC TECHNIQUES

Abstract of the Disclosure

5 A flow cell for transporting fluid in a radiant
energy field includes a cell structure having a tube
extending therethrough including a radiant energy
blocking portion integral therewith. In a particular
embodiment, the cell structure includes one or more end
caps having a protrusion extending therefrom, wherein the
10 protrusion may be inserted into the tube to create a
fluid seal, the end caps including open channels for
transporting fluid and radiant energy therethrough, and
the tube in the cell structure includes an efficient
radiant energy transmission lining that is spaced from
15 the end cap protrusions, thereby forming a gap volume in
the flow cell open channel, which gap volume may be
calibrated such that radiant energy losses may be
standardized in respective flow cells transporting fluids
having various indexes of refraction.

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